OGB Poly Care 3
Incubator
Service Manual

THIS MANUAL HAS BEEN REALIZED
RESPECTING THE ENFORCED NORMS

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1 PRESENTATION

Dear customer,
we would like to thank you for choosing our Incubator "OGB Polycare 3". Ginevri's quality, long experience, safety and easy maintenance will prove to be the best reward for your continuous interest in our products line.

Giorgio Ginevri

GINEVRI s.r.l. – Registered office
Via Giacomo Boni - 00162 Roma

⚠ Warning ⚠

Before using the device, all personnel, who will be working with the unit, should read and thoroughly understand this manual.

This manual provides instructions for calibration and operator maintenance. Ginevri cannot be responsible for the performance of the Incubator "OGB Polycare 3" if the user does not operate the unit in accordance with the instructions, fails to follow the maintenance recommendations in this manual, or effect any repairs with unauthorized components.

Calibration and repair should be performed only by qualified service personnel. Technical information is available through your local distributor.

If there is anything you do not understand, please contact your Ginevri's representative for further information.

GINEVRI srl - Servizio Assistenza Clienti
Via Cancelliera 25/B 00041 Cecchina (Roma) - ITALY
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E-mail: export@ginevri.com
www.ginevri.com

This manual refers to the enclosed equipment:

Incubator OGB Polycare 3

S/N _____

2 "EC" CERTIFICATE

EC CERTIFICATE

Certificate No 747/MDD

Annex

Infant intensive care incubators
Type ref. OGB Poly Care 1; OGB Poly Care 2; OGB Poly Care 3; OGB Poly Care 4; OGB polytrend.
Trade mark Ginevri

Transport infant incubators
Type ref. Baby Shuttle Normal Care; Baby Shuttle Special Care; Baby Shuttle Intensive Care.
Trade mark Ginevri

Infant warmers
Type ref. IW409; IW509; IW909.
Trade mark Ginevri

Series: IW509 PLUS.
Trade mark Ginevri

Series: Isola Neonatale Type ref. ALHENA PLUS ELEVABILE; ALHENA PLUS FISSA; ALHENA ELEVABILE; ALHENA FISSA.
Trade mark Ginevri

Infant heating mattress
Type ref. Acquatherm.
Trade mark Ginevri

Oxygen analyzers
Type ref. LCD 1000.
Trade mark Ginevri

Oxygen tents
Type ref. Oxytent 1000; Oxytent 2000.
Trade mark Ginevri

Phototherapy lamps in neonatal hyperbilirubinemia
Type ref. IP; IPR; RPR; RPS; D; GN; Bililight.
Trade mark Ginevri

Auxiliary infant warmers
Type ref. Hot Spot.
Trade mark Ginevri

Air compressor for transport incubator

Date: 2004-04-21
Updated: 2009-11-09
Substitution Date: 2009-04-17

IMQ

This is a translation of the Italian text, which prevails in case of doubts

IMQ S.p.A. I-20138 Milano - Via Quintiliano 43 - tel. 0250731(r.a.) - fax 0250991500 - info@imq.it - www. imq.it
Rea MI 1595884 - Registro Imprese MI 12898410159 - C.F./P.I.: 12898410159 - Capitale sociale 4.000.000 euro.

3. CALIBRATION CHECK

Every three months check the Temperature, Humidity and Oxygen probes correct operation.
To check the probes reading use the optional Ginevri **Reference Simulator P/N 10487A60.**
To check the reading of the probes perform the following steps:

Temperature probes

a) Switch off the equipment and disconnect it from the mains
b) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**
c) Connect the equipment to the mains and switch it on
d) Select on the **Reference Simulator**: PROBES on AIR 1
TEMP °C on 25°C
SELECT on MUTE
The AIR LED display should show the selected reading with a ±0.2°C tolerance for temperatures lower then 30°C and with a ±0.1°C tolerance for temperatures higher then 30°C.
Repeat this step for the temperature settings
e) Check the AIR2 and SKIN Temperature probes selecting AIR2 first and then SKIN on the simulator dial and performing the same operations of the preceding step
f) Select on the **Reference Simulator**: PROBES MAX TEMP
TEMP °C on 39.8°C
SELECT on H.T.
check that the MAX TEMP alarm does not activate.
Select on the **Reference Simulator**: TEMP °C on 40.1°C And check that the MAX TEMP alarm activates.

Humidity Probe

a) Switch off the equipment and disconnect it from the mains
b) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**
c) Connect the equipment to the mains and switch it on
d) Select on the **Reference Simulator**: PROBES on HUM
Hum % on 30%
SELECT on MUTE
e) The HUM LED display should show the selected reading
f) Repeat this step for all Hum %settings .

Oxygen probe

a) Switch off the equipment and disconnect it from the mains
b) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**
c) Connect the equipment to the mains and switch it on
d) Select on the **Reference Simulator**: PROBES on OXY
Oxy % on 21%
SELECT on MUTE
e) The OXY LED display should show the selected reading
f) Repeat this step for all the OXY %settings

If the readings of the probes are not correct, within the specified tolerances, the probes should be calibrated. The calibration is performed by means of the reference simulator as described in the following chapters.

3.1 TEMPERATURE PROBES CALIBRATION

ATTENTION: Unless otherwise stated, the temperature probes calibration is performed on the microprocessor board (P/N 10359A15).

To calibrate the temperature probes perform the following steps:

a) Switch off the equipment

b) Remove the four screws securing the control panel and open it to have free access to the boards

c) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**

d) Connect the equipment to the mains and switch on, if an alarm goes off mute it.

AIR 1

e) Select on the **Reference Simulator**: PROBES on AIR 1
TEMP °C on 25°C
SELECT 1 on MUTE

f) connect the negative lead of the multimetr to PIN 2 of J5, connect the positive lead of the multimeter to TP1

g) Adjust the trimmer R29 to read 1060 mV ±1 on the multimeter

h) Select on the **Reference Simulator**: TEMP °C su 36°C

i) Disconnect the multimeter

j) Adjust the trimmer R 28 to read 36°C ±0.1 on the AIR display of the control panel

k) Check the calibration selecting on the **Reference Simulator** dial all the settable values, with the exception of 0°C and MAX TEMP, verifying that the set value is displayed on the AIR display (to obtain a correct reading each set temperature value should be kept stable for at least 10 seconds) the reading should be between the following tolerances

< 30°C	±0.2°C
> 30°C	±0.1°C

AIR 2

l) Select on the **Reference Simulator**: PROBES su AIR 2
TEMP °C su 36°C

m) Adjust the trimmer R31 to read 36°C ±0.1 on the AIR display of the control panel. Follow the instructions of step k) setting the PROBES dial of the **Reference Simulator** first on AIR1 and then on AIR2

SKIN

n) Select on the **Reference Simulator**: PROBES on SKIN
TEMP °C on 36.5°C

o) Adjust the trimmer trimmer R30 to read 36.5°C ±0.1 on the SKIN display of the control panel. . Follow the instructions of step k) setting the PROBES dial of the reference simulator first on AIR1, AIR2 And then on SKIN

MAX TEMP

p) Select on the **Reference Simulator**: PROBES on MAX TEMP
TEMP °C on 40°C
SELECT on H.T.

The alarm should be inactive

q) Adjust the trimmer PT 5 placed on display board to reach half-way between alarm activated and not activated. Adjust the trimmer PT 101 to have the MAX TEMP alarm activated.
r) Select on the Reference Simulator VAR condition and adjust the potentiometer placed in the simulator to have the MAX TEMP alarm activated. Select on the Reference Simulator AIR 1 and verify that it is possible to read on incubator air display a value of 40.0°C ± 0.1°C , if necessary repeat the q) point.
s) Repeat steps p) and q) to check the MAX TEMP calibration.

3.2 HUMIDITY PROBE CALIBRATION

ATTENTION: Unless otherwise stated, the humidity probe calibration is performed on the microprocessor board (P/N 10359A15)

a) Switch off the equipment
b) Remove the four screws securing the control panel and open it to have free access to the boards
c) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**
d) Connect the equipment to the mains and switch on, if an alarm activates mute it by MUTE push button.
e) Select on the **Reference Simulator**: PROBES on HUM
HUM % on 0% (short circuit)
f) On the MICROPROCESSOR BOARD connect the negative lead of a multimeter to PIN 2 of J5 (black lead) and the positive lead to PIN 5 of U12. Adjust trimmer PT2 on the DISPLAY BOARD to read 0 mV ±2
g) Select on the reference simulator HUM % on 90%
h) Adjust PT1 to read 90% on the display HUM of the control panel
i) Check the calibration Selecting on the **Reference Simulator** dial all the settable values, with the exception of IN, verifying that the set value is displayed on the HUM. For a further check of the humidity level in the incubator use a wet bulb Hygrometer.

3.3 OXYGEN PROBE CALIBRATION

ATTENTION: Unless other stated, the oxigen probe calibration is performed on the display board

a) Switch off the equipment
b) Remove the four screws securing the control panel and open it to have free access to the boards
c) Disconnect from the control panel the O2 probe connector and replace it with the **Reference Simulator**
d) Connect the equipment to the mains and switch on, if an alarm goes off mute it.
e) Select on the **Reference Simulator**: PROBES on OXY
OXY % on 0% (short circuit)
f) On the MICROPROCESSOR BOARD connect the negative lead of a multimeter to PIN 2 of J5 (black lead), connect the positive lead PIN 6 of U 12. Adjust the trimmer PT 4 on the DISPLAY BOARD to read 0 mV ±2 . If it is necessary adjust before PT3.

g) Select OXY % on 21%.
h) Adjust trimmer PT3 to read 980 mV ±5 on the multimeter
i) Select OXI% on CAL and check that the oxi display on the control panel is showing 21%, (calibration operation ,indicated with CA, takes about 30 sec.).
j) Select OXI % on 98% and adjust PT3 trimmer to obtain the reading of 98% on the oxi display.
k) Select OXI% on 21% and verify the reading of 21% on the oxi display. If necessary repeat the previous points i), j) and k).

3.4 HUMIDIFICATOR SYSTEM CALIBRATION.

ATTENTION: Unless specified, the humidificator calibration system is performed on the power board.

a) Switch off the equipment
b) Remove the four screws securing the control panel and open it to have free access to the boards
c) Disconnect from the control panel the probe assembly connector and replace it with the **Reference Simulator**
d) Connect the equipment to the mains and switch on, if an alarm goes off mute it.
e) Select on the **Reference Simulator**: PROBES on HUM
HUM % on
0% (short circuit)
f) Disconnect the J5 from Power Board.
g) Verify that D14 led lights on.
h) Connect the negative lead of multimeter to the ground test-point placed near to R31 resistor.
i) Connect the positive lead of multimeter to the pin 3 of U6 and adjust the trimmer RV1 to 3.83 Vdc.
j) Verify that the leds status does not change.
k) Connect the positive lead of multimeter to the pin 9 of U5 and adjust the trimmer RV2 to 11 Vdc.
l) Verify that the leds status does not change.
m) Connect the positive lead of multimeter to the pin 6 of U5 and adjust the trimmer RV5 to 3.8 Vdc.
n) Verify that the leds status does not change.
o) Connect the J5 connector to the Power Board.
p) Verify that D14 led lights off.
q) Select on Reference Simulator HUM = 30%
r) Adjust the HUM SET point value to 66%.

s) Verify that the D19 led lights on.

t) Connect the positive lead of multimeter to pin 3 (red wire) of J5 connector of the power board.

u) Adjust the trimmer RV3 to 3.3Vdc value.

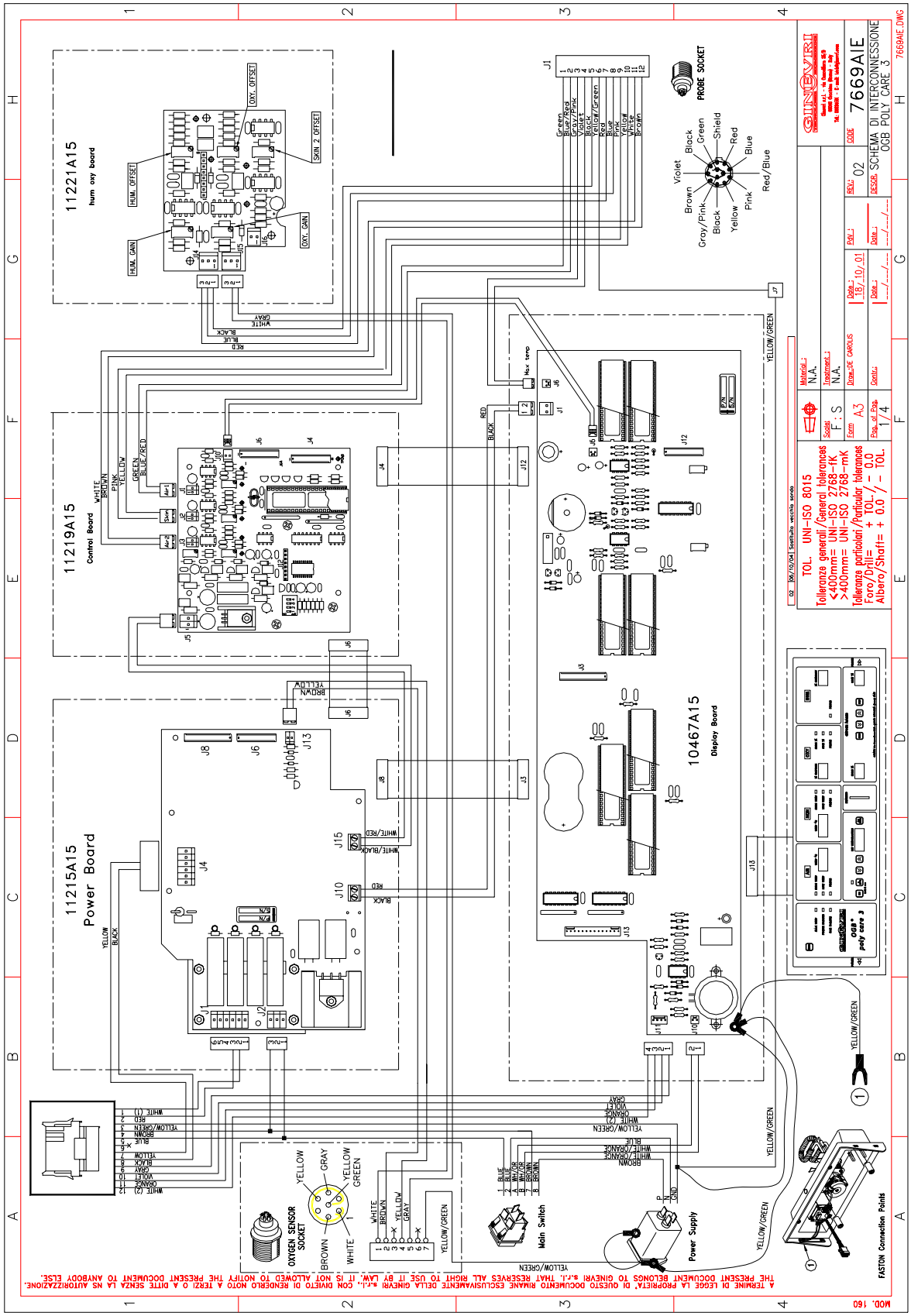
v) Select on Reference Simulator HUM= 66%.

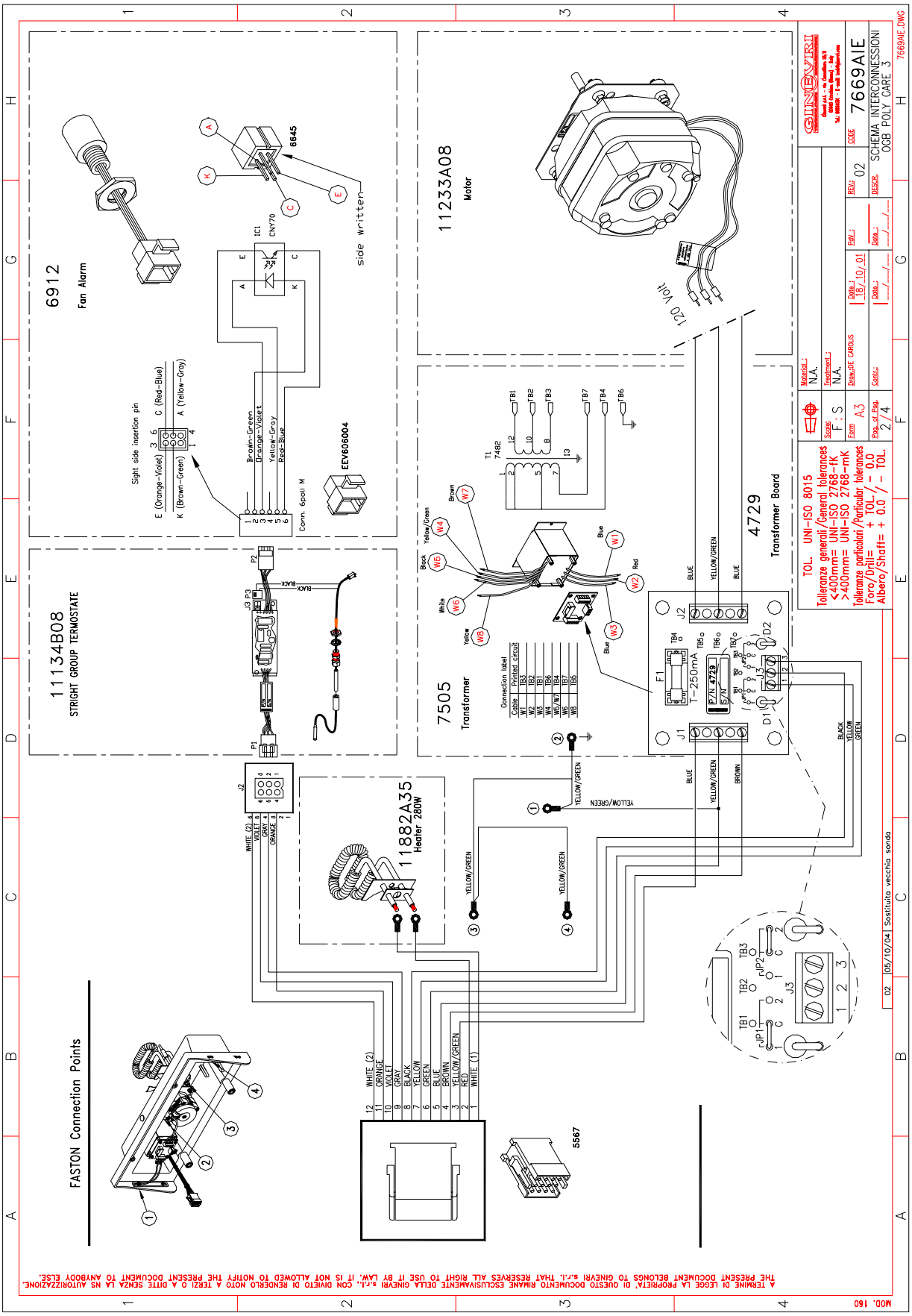
w) Verify that the D19 led lights off.

x) Connect the positive lead of multimeter to pin 3 (red wire) of J5 connector of the power board.

y) Adjust the trimmer RV4 to 2.5Vdc value.

4. ELECTRICAL INTERCONNECTION DIAGRAM





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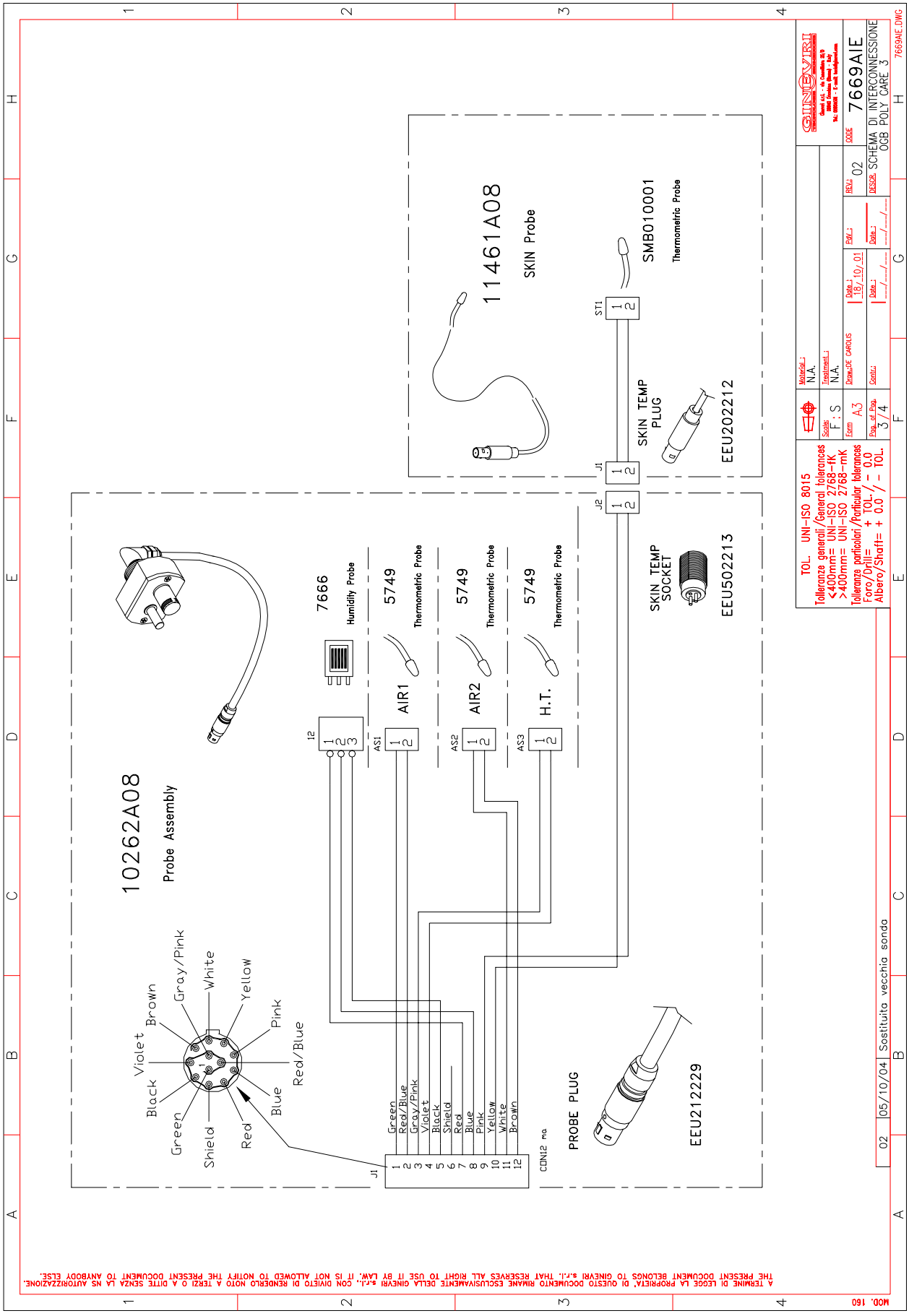

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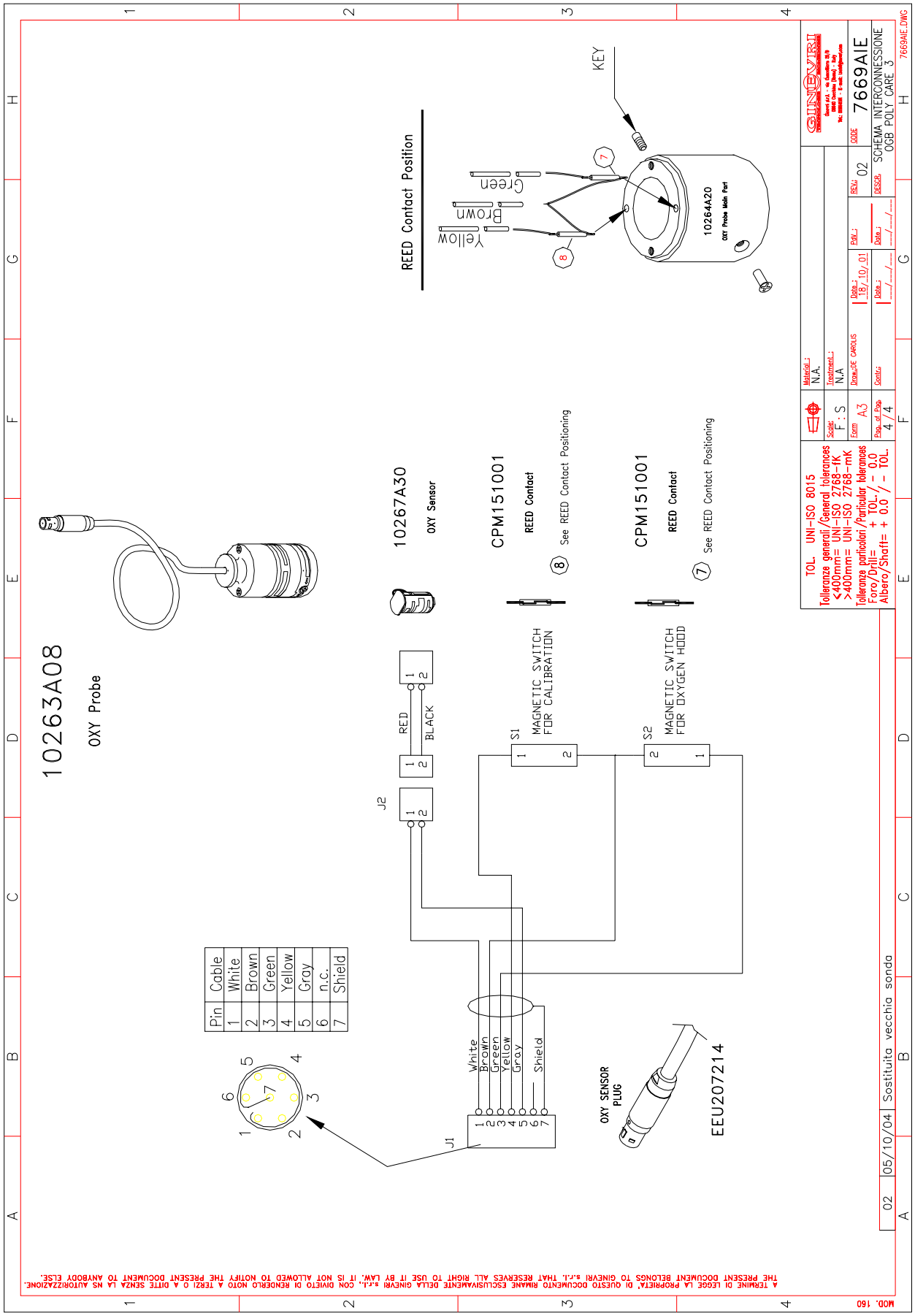
10263A08
OXY Probe
10267A30
OXY Sensor
CPM151001
REED Contact
See REED Contact Positioning
CPM151001
REED Contact
See REED Contact Positioning
REED Contact Position
KEY
10264A20
OXY Probe Main Part
Yellow
Brown
Green
RED
BLACK
J2
S1
MAGNETIC SWITCH
FOR CALIBRATION
S2
MAGNETIC SWITCH
FOR OXYGEN HOOD
Pin Cable
1 White
2 Brown
3 Green
4 Yellow
5 Gray
6 n.c.
7 Shield
White
Brown
Green
Yellow
Gray
Shield
J1
OXY SENSOR
PLUG
EEU207214
TOL. UNI-ISO 8015
Tolleranze generali /General tolerances
<400mm= UNI-ISO 2768-fK
>400mm= UNI-ISO 2768-mK
Tolleranze particolari /Particular tolerances
Fora/Drill= + TOL. / - 0.0
Albero/Shaft= + 0.0 / - TOL.
Material:
N.A.
Treatment:
N.A
Scale:
F : S
Form
A3
Dwg. nr. Pag.
4 / 4
Drawn:
DF CAROLUS
Date:
18/10/01
Check:
Date:
Pgm:
Date:
REV.
02
CODE
7669AIE
DESCR.
SCHEMA INTERCONNESSIONE
OGB POLY CARE 3
GINEVRI
02 05/10/04 Sostituita vecchia sonda
7669AIE.DWG
MOD. 160
A TERMINE DI LEGGE LA PROPRIETA' DI QUESTO DOCUMENTO RIMANE ESCLUSIVAMENTE DELLA GINEVRI s.r.l. CON DIVIETO DI RENDERLO NOTO A TERZI O A DITTE SENZA LA NS AUTORIZZAZIONE.
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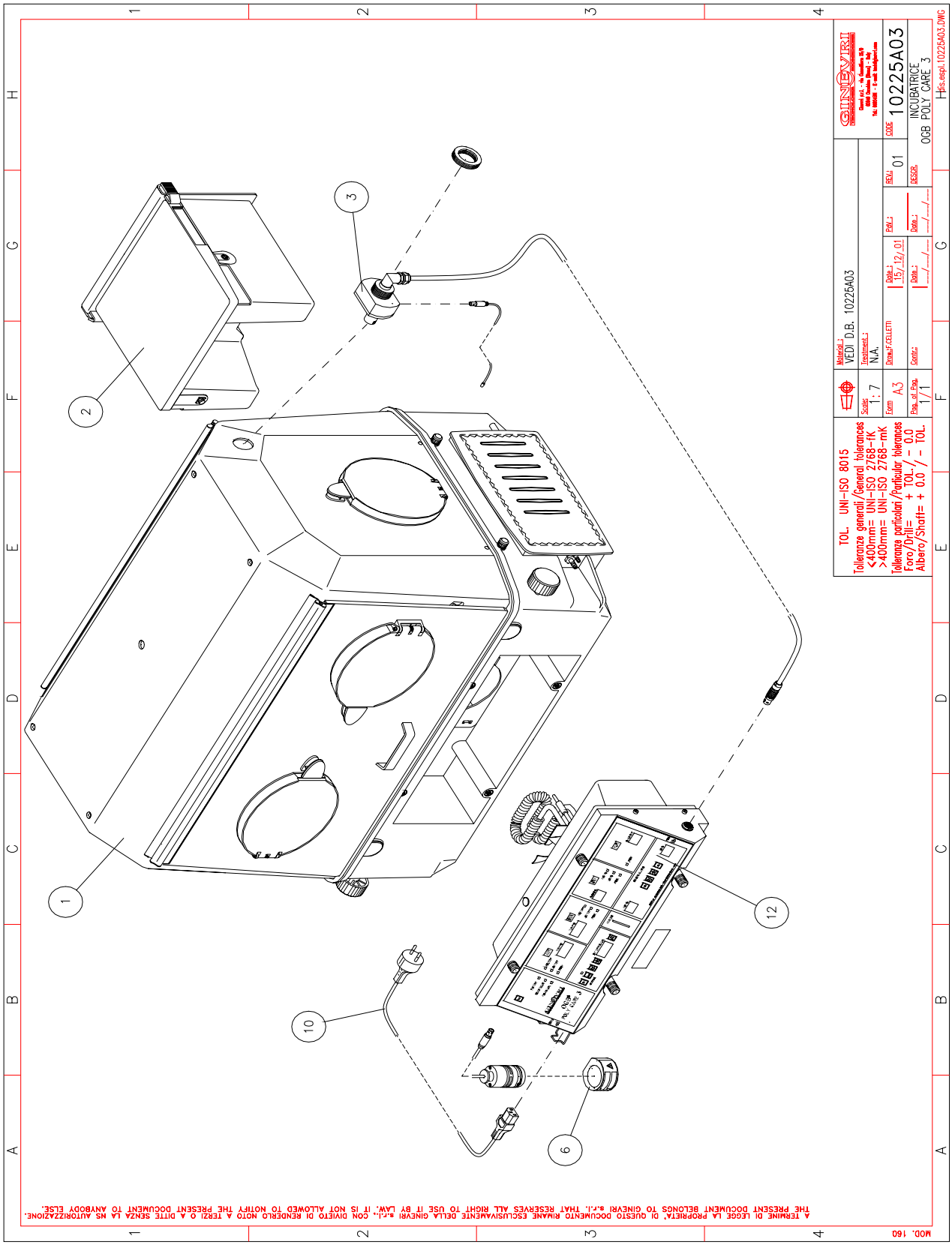
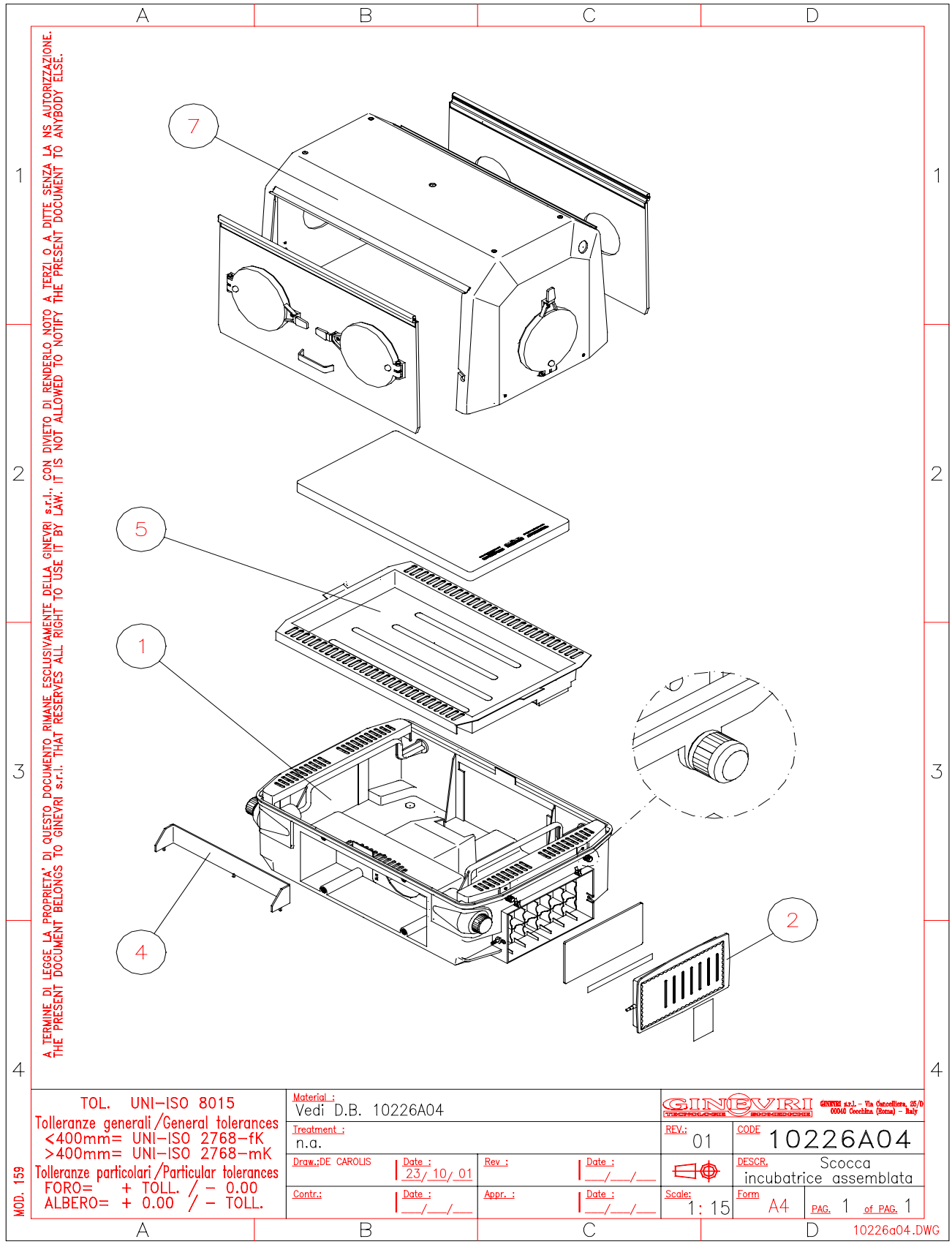
5. SPARE PART

5.1 Incubator Poly 3



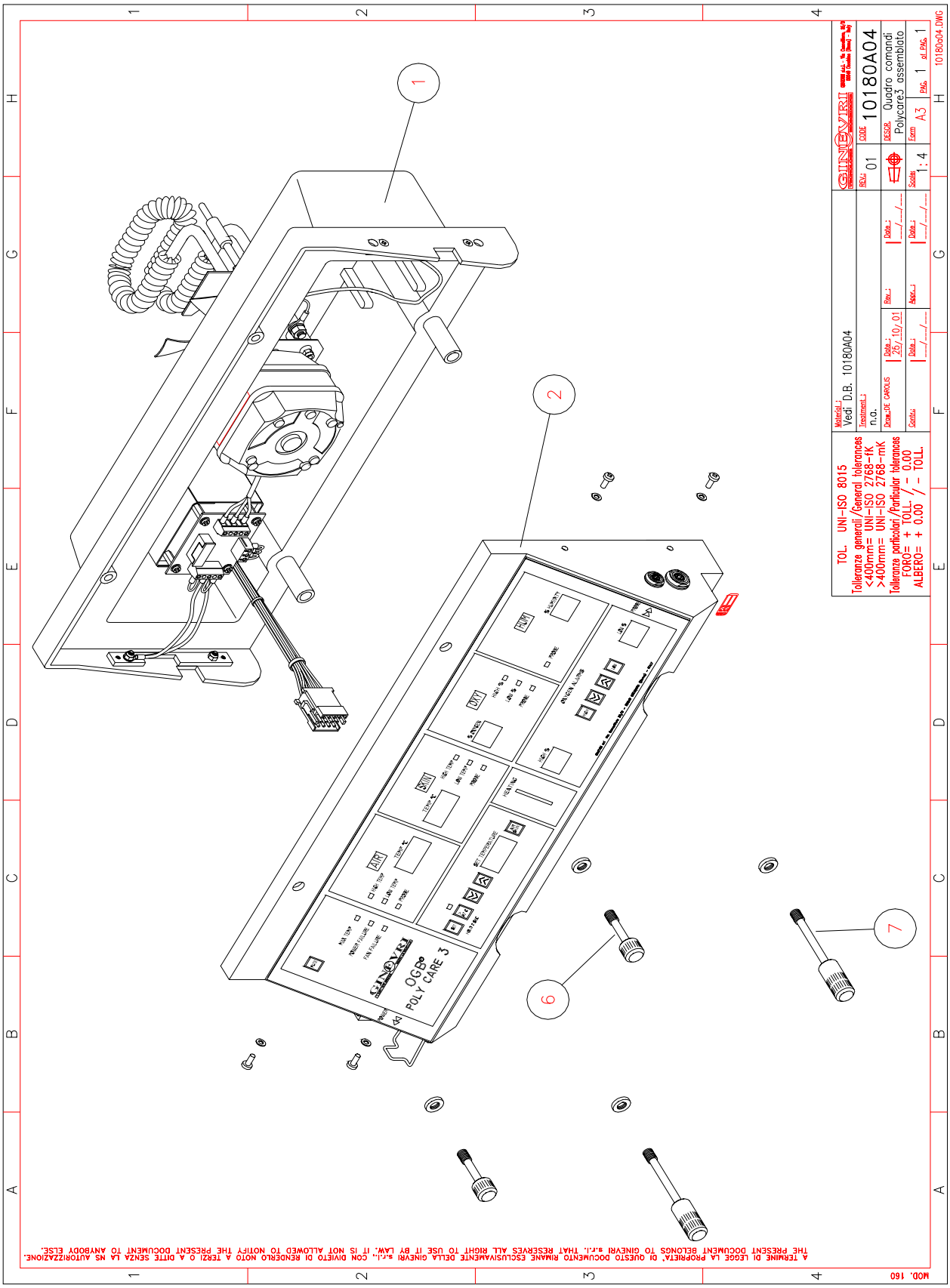
Item	Code	Description	Q.ty
1	10226A72	ASSEMBLED BODY INCUBATOR	NR 1
2	10239A72	ASSEMBLED WATER BOX	NR 1
10	11885A72	POWER CABLE SCHUKO - IEC	NR. 1
3	10262A72	OXYGEN PROBE HOLDER	NR 1
12	10180A72	ASSEMBLED CONTROL PANEL	NR 1
6	10388A72	HOLDER CALIBRATION OXY SENSOR	NR 1

5.2 Assembled Body Incubator



Item	*Code*	*Description*	*Q.ty*
1	10106A72	COMPLETED BASEMENT	NR. 1
2	11315A72	MICROFILTER COVER	NR. 1
5	6100A72	PATIENT TRAY	NR. 1
4	7320A72	AIR CONVEYOR	NR. 1
7	11835A72	ASSEMBLED HOOD	NR. 1

5.3 Assembled Control Panel


1
2
6
7
OGB
POLY CARE 3
GINEVRI
10180A04
Quadro comandi Polycare3 assemblato
A3
1 : 4
TOL. UNI-ISO 8015
Tolleranze generali/General tolerances
≤400mm= UNI-ISO 2768-fK
>400mm= UNI-ISO 2768-mK
Tolleranze particolari/Particular tolerances
FORO= + TOLL. / - 0.00
ALBERO= + 0.00 / - TOLL.
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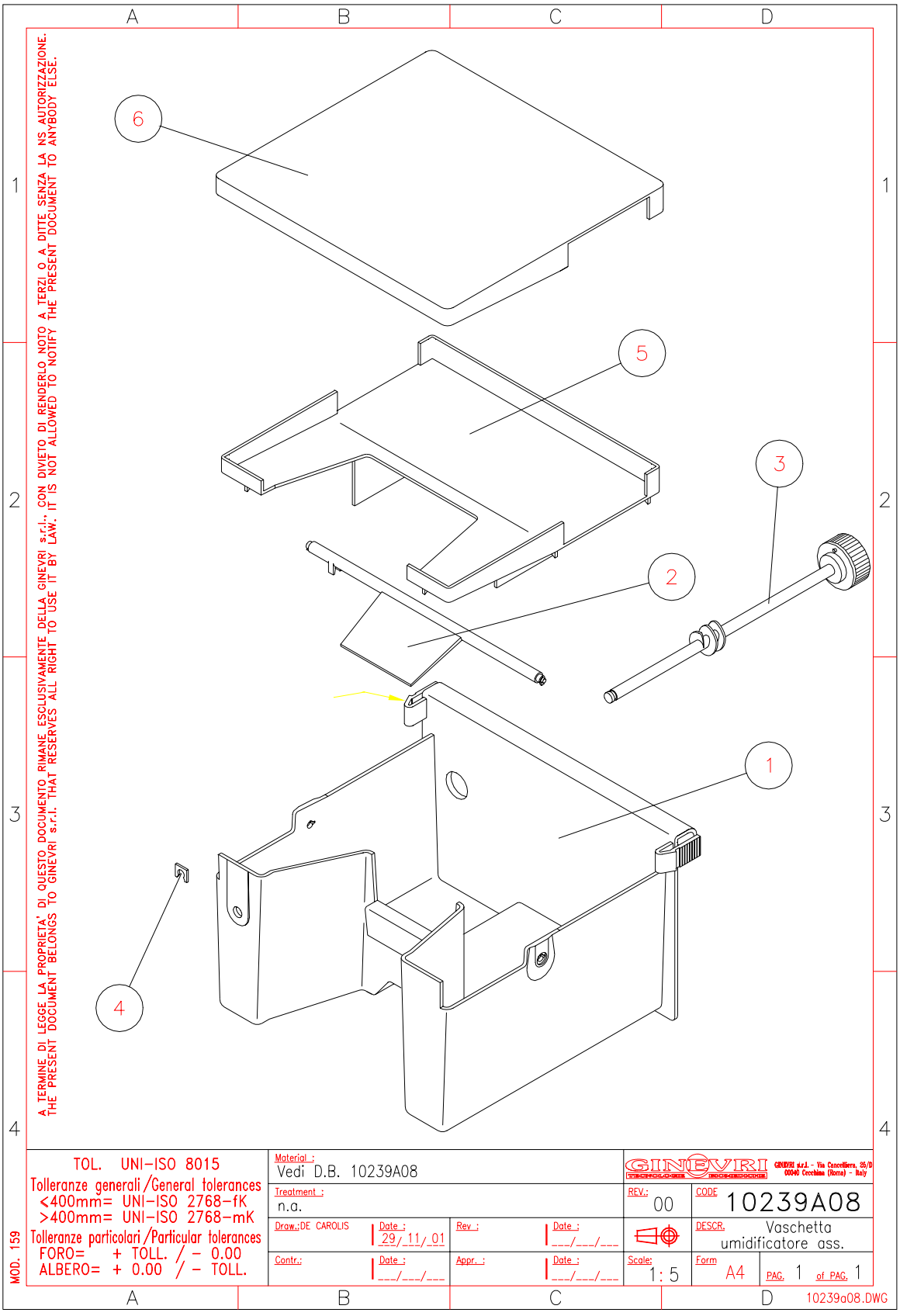
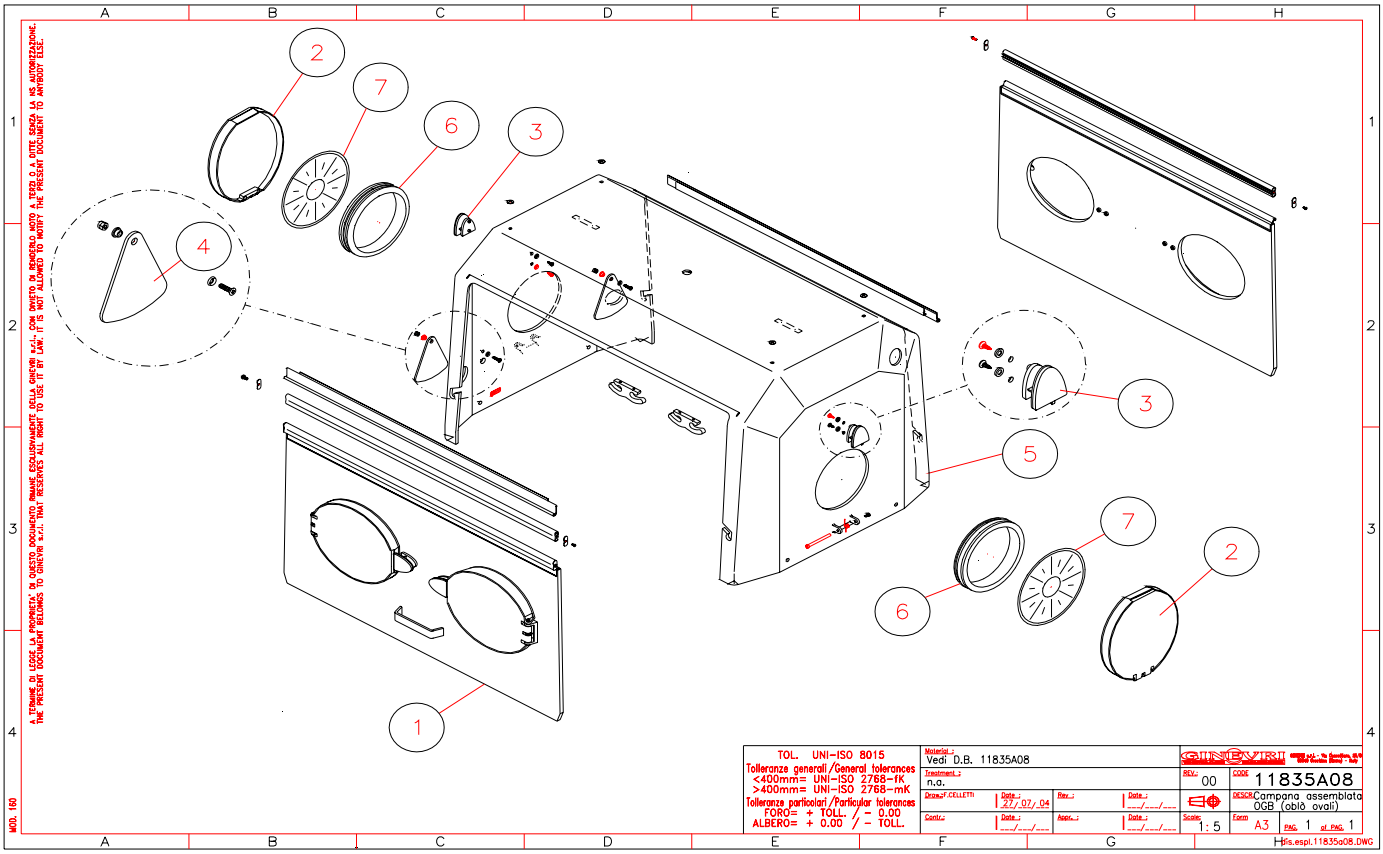
Item	*Code*	*Description*	*Q.ty*
1	10181A72	BLOCK POWER CONTROL PANEL	NR. 1
2	10182A72	BLOCK KEYBOARD CONTROL PANEL	NR. 1
7	10183A72	KNURLED KNOB	NR. 2
6	10185A72	KNURLED KNOB	NR. 2

5.4 Assembled Water Box



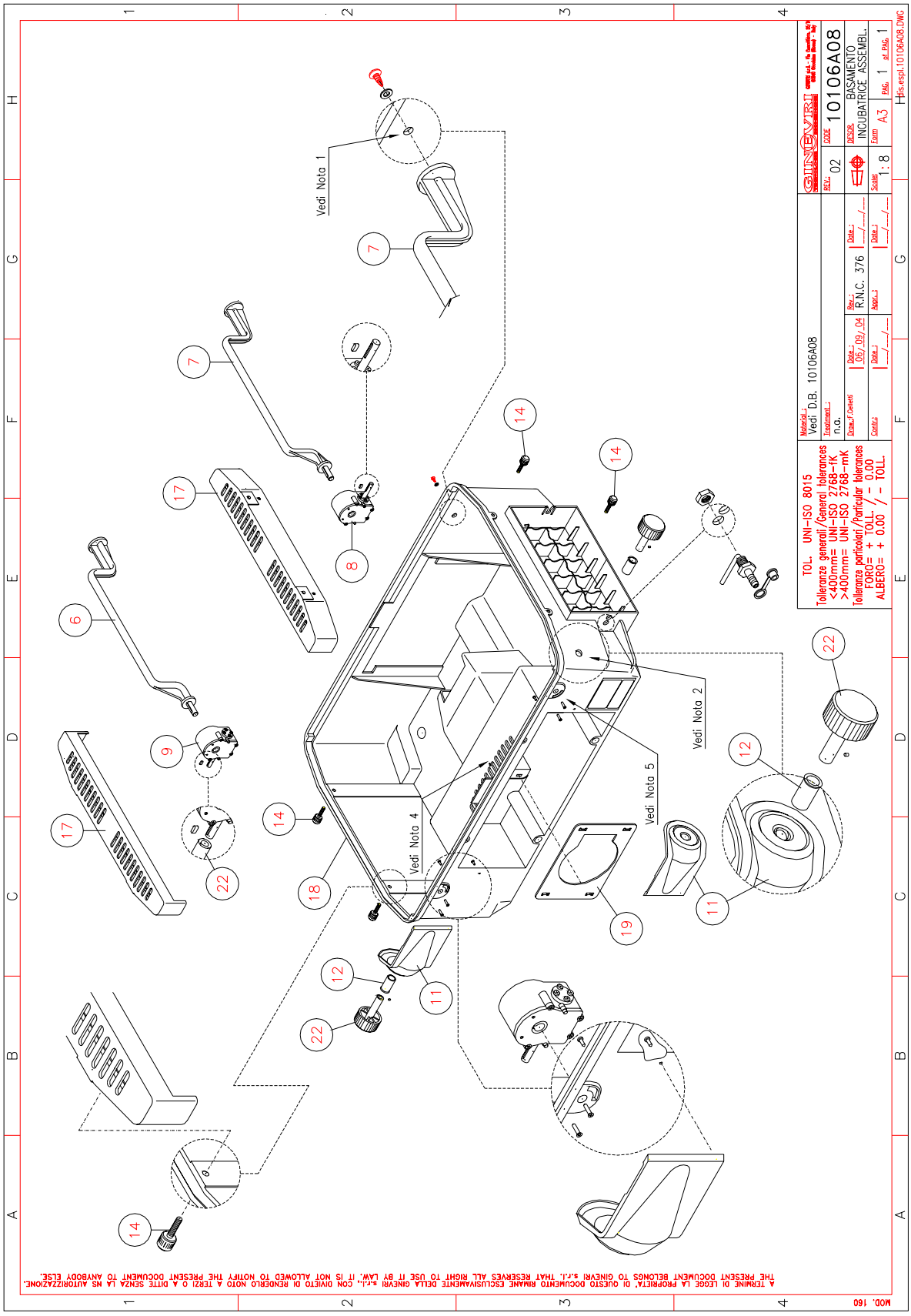
Item	Code	Description	Q.ty
1	5847A72	WATER BOX	NR. 1
5	5849A72	INFERIOR HALF-COVER	NR. 1
6	5927A72	SUPERIOR HALF-COVER.	NR. 1
2	5928A72	POLE WITH DEFLECTOR	NR. 1
3	5929A72	PIVOT PIN	NR. 1
4	5930A72	LOCK FOR PIVOT PIN	NR. 1

5.5 Assembled Hood



Item	Code	Description	Q.ty
1	10231B72	HOOD DOOR PANEL OVAL PORT ASSEMBLY	**1**
2	11745A72	OGB INCUBATOR OVAL PORTHOLE	2
3	11750A72	PUSH OPENERS FOR ACCESS PORTS	6
4	2592A72	TRIANGLE FOR OGB	2
5	7460A72	OGB INCUBATOR HOOD LEXAN N/MOD	1
6	12029A73	RUBBER SEAL FOR THE HOOD (ROUND HOLES)	6
7	11725A73	SLEEVE FOR PORTHOLE	12

5.6 Assembled Basament


Vedi Nota 1
Vedi Nota 2
Vedi Nota 4
Vedi Nota 5
10106A08
BASAMENTO INCUBATRICE ASSEMBL.
Vedi D.B. 10106A08
R.N.C. 376
TOL. UNI-ISO 8015
Tolleranze generali /General tolerances
<400mm= UNI-ISO 2768-fK
>400mm= UNI-ISO 2768-mK
Tolleranze particolari /Particular tolerances
FORO= + TOLL. /- 0.00
ALBERO= + 0.00 /- TOLL.
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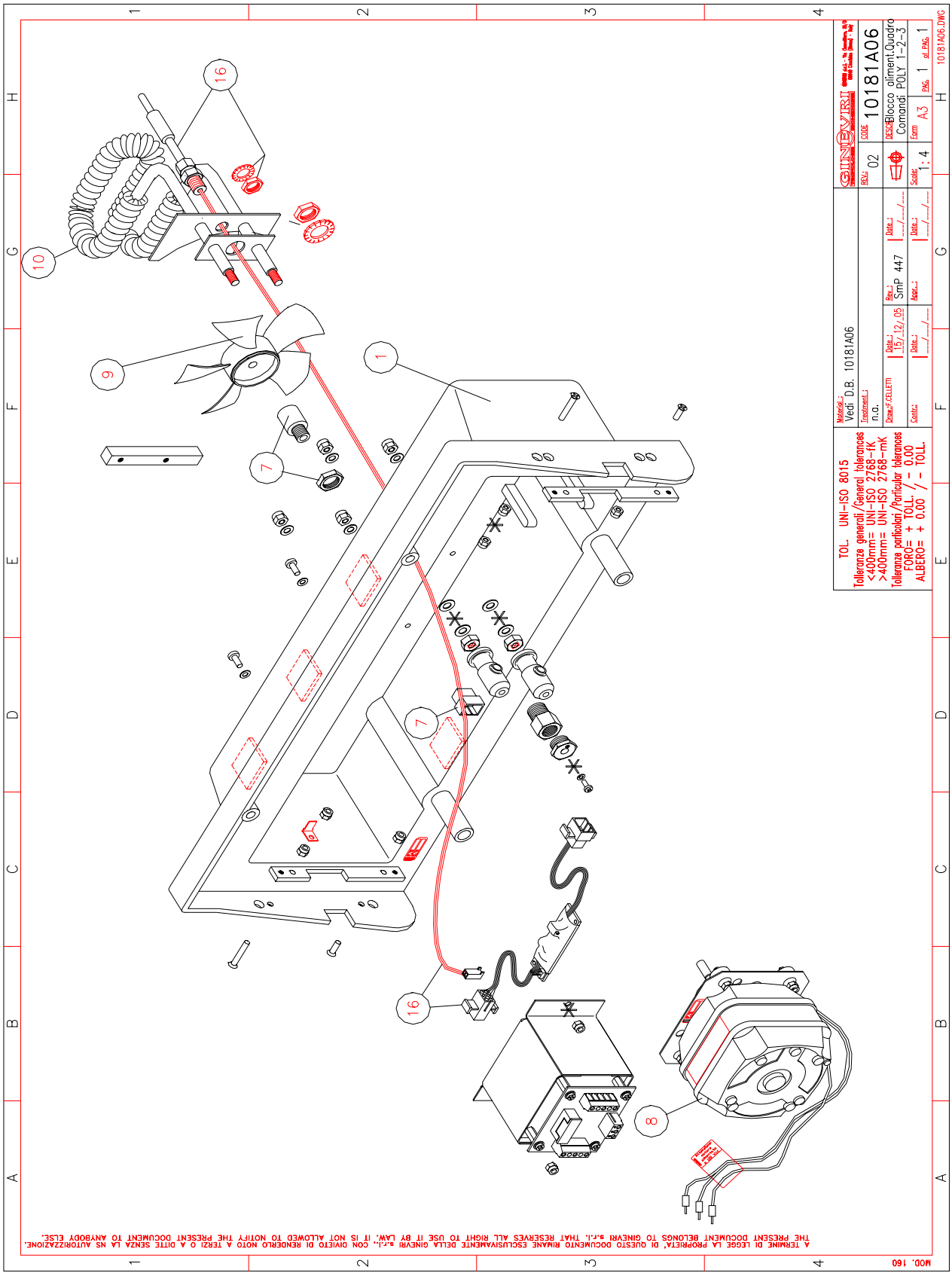
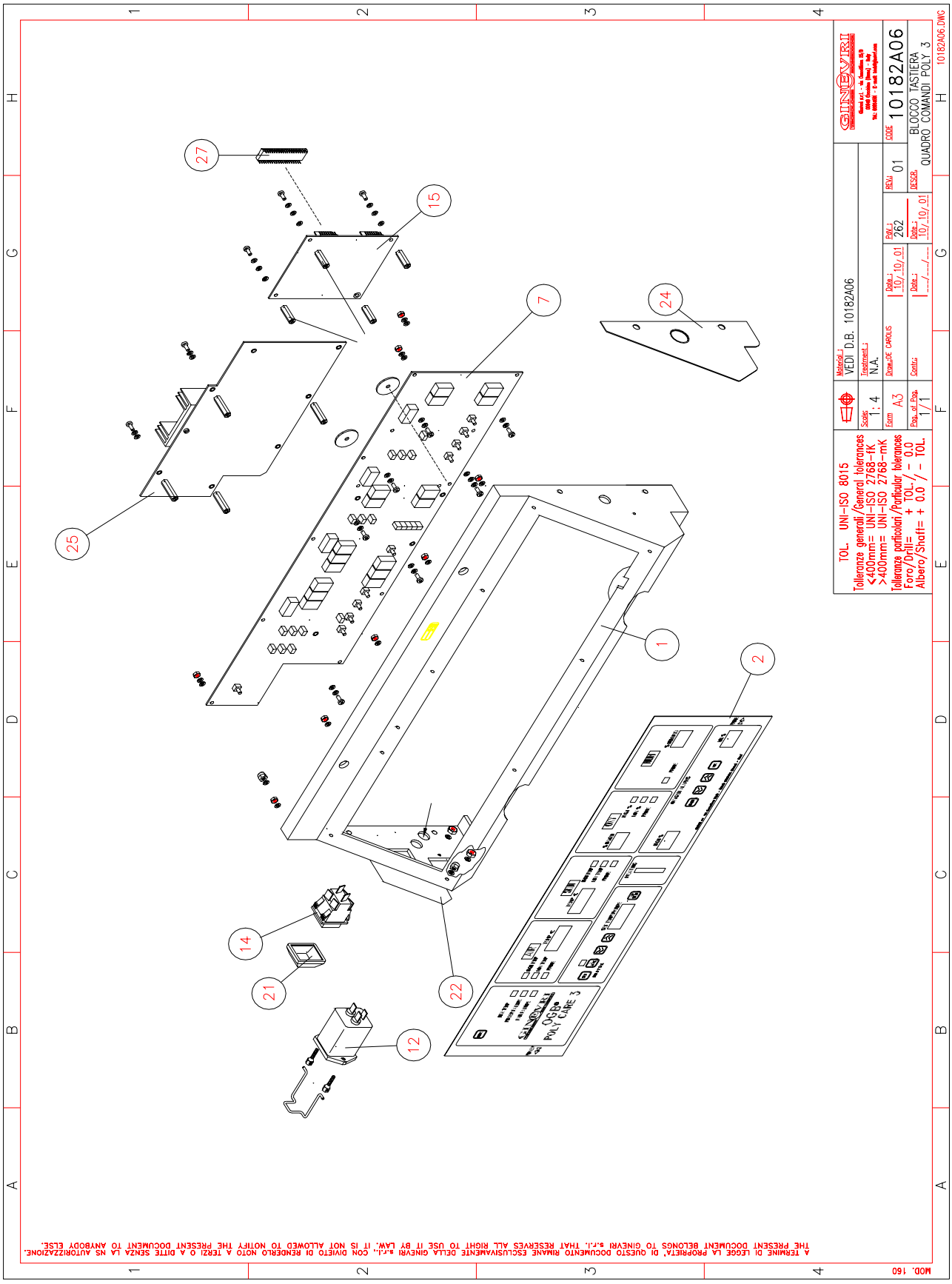
Item	Code	Description	Q.ty
6	10107A72	TRAY POSITIONING LEVER LEFT	NR 1
7	10108A72	TRAY POSITIONING LEVER RIGHT	NR 1
8	10244A72	SMOOTH TILT LEFT	NR 1
9	10245A72	SMOOTH TILT RIGHT	NR 1
11	10744A72	SMOOTH-TILT KNOB CASE	NR 2
12	10745A72	SMOOTH TILT KNOB PASSING BEARING	NR 2
14	1660A72	KNOB M6X25	NR 4
17	453A72	HOLED LONGERON X OGB	NR 2
18	5846A72	BASE OGB LEXAN	NR 1
19	5932A72	ORIFICE PLATE OGB/2000 LEXAN	NR 1
22	7702A72	KNOB D50 X SHAFT D8	NR 2

5.7 Locked Power Control Panel



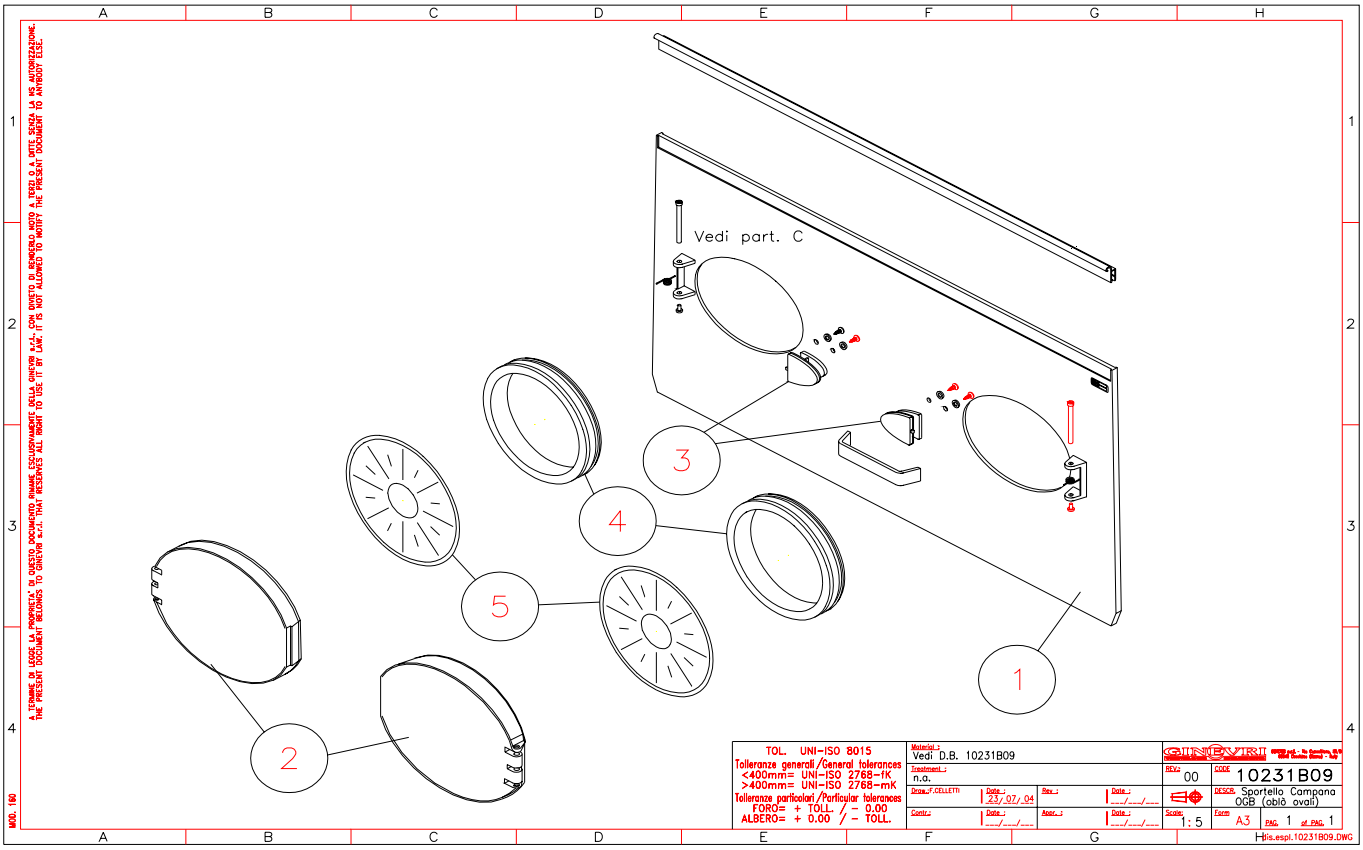
Item	Code	Description		Q.ty
8	11233A72	ASSEMBLED ENGINE GROUP	NR	1,0000
16	11134B72	SECURITY THERMOSTAT	NR	1,0000
9	4906A72	FAN	NR	1,0000
1	5848A72	INTERNAL BODY CONTROL PANEL	NR	1,0000
7	6912A72	FAN FAILURE SENSOR	NR	1,0000
10	11882A72	RESISTANCE 280W 220V X OGB POLY	NR	1,0000

5.8 Control Panel Keyboard



Item	Code	Description	Q.ty
22	10663A72	LABEL SIDE SX CONTROL PANEL	NR 1
24	10935A72	LABEL SIDE DX CONTROL PANEL	NR. 1
21	10531A72	SWITCH PROTECTION 30x24	NR 1
12	11888A72	PLUG IEC 2A	NR 1
27	10197A72	EPROM	NR. 1
2	10461A72	KEYBOARD	NR 1
25	11215A72	POWER CARD	NR. 1
1	122A72	FRONTAL CONTROL PANEL.	NR 1
14	6422A72	GREEN SWITCH ON/OFF	NR 1
15	11219A72	MICROPROCESSOR BOARD	NR. 1
7	10467A72	CONTROL BOARD	NR. 1

5.9 Assembled Hood Door



Rif.	Code	Description	Q.ty
1	11744A72	OGB INCUB.DOOR WITH OVAL PORTS	1
2	11745A72	OVAL ACCESS PORTS OGB INCUB.	2
3	11750A72	PUSH OPENERS FOR ACCESS PORTS	6
4	11721A73	RUBBER SEAL FOR DOORS WITH OVAL PORTHOLES	6
5	11725A73	SLEEVE FOR PORTHOLE	12

6. MAINTENANCE SERVICE

Ginevri representative in your country can stipulate, within one month before warranty period expiry, various kinds of maintenance contract.

For any inquiry please contact us:

Ginevri s.r.l.
Via Cancelliera, 25/B
00041 Cecchina (Roma)
Italy
Tel. +39 06 93459331
Fax. +39 06 93459393
E-mail: **mail@ginevri.com**

The device is manufactured in compliance with the standards CEI 62.5 (file 1445 of 01/91) and EN 60 601-1 and related IEC 601-2-50. Moreover the device is provided with an EMC (electromagnetic compatibility) anti-jamming device.

If servicing/maintenance after warranty period is performed by other companies not qualified/authorized by us, all fixed parts have to be marked by the repairer. The repairer has to verify and guarantee in writing the perfect functioning of the device. Any modification of the device must comply with the Medical Devices Normative law 93/42/CEE and approved by Ginevri s.r.l.

For maintenance service original materials must be used.

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7. PROGRAMMED AND PREVENTIVE MAINTENANCE

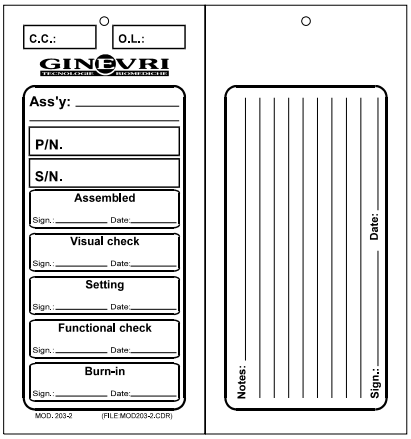
All electromedical devices must be maintained regularly, as for the normative law (CEI 1276 G).
The aim of preventive and programmed maintenance is to minimise the need of faults repairing and to obtain:

- **Correct functioning;**
- **Safety for the patient, the operator and the surrounding environment;**
- **Maximum availability of the device.**

Preventive maintenance consists in controls performed by the operator and periodical maintenance. Written programs should be defined regarding every kind of device, based on laws, technical standards and suggestions of the manufacturer. These programs must include controls performed by the operators and periodical maintenance.

8. FINAL CHECK

If all test operations are successfully completed, sign and stamp the Functional-Check field and tick the Setting field of the label attached to the device, as shown in the following picture.



If test operations are not successfully completed, state whether the OGB Polycare Infant Incubator has to be repaired or replaced. In case it has to be repaired, this can be done immediately (urgent cases) or afterwards. If the maintenance can be performed afterwards, place a red mark on the device and leave it in the area dedicated to materials waiting for maintenance for a further service. Write down the anomalies in the Notes field on the back of the label.
If the OGB Polycare Infant Incubator has to be replaced, fill in the non-conformity statement, according to PO-10.

9. TECHNICAL DATA

FRAME	***POLYCARBONATE***
POWER SUPPLY	***220V 50/60 HZ***
POWER DRAIN	***330W (540W HOT SPOT)***
SAFETY CLASS	***I***
CATEGORY	***B***
GROUND DISPERSION CURRENT	***70 µ A***
ELECTRICAL PROTECTION	***2 FUSES 5X20MM 3.15 AMP F***
POWER FAILURE ALARM BATTERY	***INCLUSA***
SKIN TEMPERATURE DISPLAY	***0.1°C RESOLUTION, 0.3°C MAX ERROR***
AIR TEMPERATURE DISPLAY	***0.1°C RESOLUTION, 0.6°C MAX ERROR***
HIGH TEMPERATURE ALARM	***(only Automatic mode) ACOUSTIC/VISUAL AUTOMATIC (+1°C with respect to SET TEMP)***
ENVIRONMENT OPTIMUM TEMPERATURE	***21°C /26°C***
STORAGE TEMPERATURE	***-10°C/+50°C***
MAXIMUM WHEIGHT ON PATIENT BED	***10 KG***
MAXIMUM DIMENSIONS	***83x59x68 Cm***
WHEIGHT	***51 kg***

10 COMPLIES WITH FOLLOWING STANDARD

:

IEC	**601.1**	**(CEI 62.5)**
IEC	**601.2.19**	
EN	**55011**	
EN	**61000-4-2**	
EN	**61000-4-3**	
EN	**61000-4-4**	
EN	**61000-4-5**	
EN	**61000-4-11**	

MEDICAL DEVICE 93/42/CEE
CLASS IIb

SINCERT IMQ

UNI EN ISO 9000:2000 – CERTIFIED QUALITY SYSTEM BY IQNET – No. CERT –IT-37100
UNI CEI ISO 13485 – PARTICULAR REQUIREMENTS FOR MEDICAL DEVICES

CE 0051